

1. (Amended) An auxiliary power system for operation in cooperation with a primary engine having a battery, comprising
- (A) a secondary engine, and
 - (B) control means having a timer, wherein:
 - (i) such control means shuts down such primary engine following a predetermined time period of idling of such primary engine; and
 - (ii) such control means enables automatic operation of such secondary engine.

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2/1. A method of supplying auxiliary power to a primary engine, comprising the steps of:
- (A) providing a secondary engine coupled to an electrical generator;
 - (B) providing a controller having
 - (i) a primary engine idle timer; and
 - (ii) a plurality of selectable control modes;
 - (C) monitoring the operating condition of such primary engine;
 - (D) automatically shutting down such primary engine following idling of such primary engine for a predetermined period of time; and
 - (E) operating such secondary engine in response to a predetermined condition of such primary engine.

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¹⁹2/2. Method of supplying auxiliary power to a primary engine of Claim 2/1, wherein such predetermined condition of such primary engine is selected from the group consisting of:

- (i) if such controller is selected to a first mode,
 - (a) starting such secondary engine in response to a first selected coolant temperature or lube-oil temperature; and
 - (b) shutting down such secondary engine in response to a second selected coolant temperature or lube-oil temperature;
- (ii) if such controller is selected to a second mode,
 - (a) enabling manual control of such secondary engine;

- (b) starting such secondary engine is response to a first selected coolant temperature or lube-oil temperature; and
- (c) shutting down such secondary engine is response to a second selected coolant temperature or lube-oil temperature; and
- (iii) if such controller is selected to a third mode,
- (a) enabling manual control of such secondary engine.
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23. Method of claim ~~18~~²¹, further comprising
- providing heating means for such primary engine coolant, and
- providing heating means for such primary engine lube-oil.